

#10



ENTERED

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/857,346

DATE: 01/24/2003

TIME: 13:12:49

Input Set : A:\US App 050341-0041-3 Aug 22, 2002.txt.txt

Output Set: N:\CRF4\01242003\I857346.raw

3 <110> APPLICANT: Burn, Joanne E
 4 Peacock, William J.
 5 Dennis, Elizabeth S
 6 Sheldon, Candice C.
 7 Helliwell, Christopher A.
 8 Rouse, Dean T.
 10 <120> TITLE OF INVENTION: Control of Flowering
 12 <130> FILE REFERENCE: 050341-0041
 14 <140> CURRENT APPLICATION NUMBER: 09/857,346
 C--> 15 <141> CURRENT FILING DATE: 2002-06-04
 17 <150> PRIOR APPLICATION NUMBER: PP 7469
 18 <151> PRIOR FILING DATE: 1998-12-03
 20 <150> PRIOR APPLICATION NUMBER: US 60/116,928
 21 <151> PRIOR FILING DATE: 1999-01-22
 23 <150> PRIOR APPLICATION NUMBER: PCT/AU99/01079
 24 <151> PRIOR FILING DATE: 1999-12-02
 26 <160> NUMBER OF SEQ ID NOS: 42
 28 <170> SOFTWARE: PatentIn version 3.1
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 7968
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Arabidopsis thaliana
 35 <400> SEQUENCE: 1
 36 ggatccaaga aataatttca tatggggcac agttaaaaaa aaaacaataa aatgataata 60
 38 gtaaggcttg aacttgggtt gatgtgaggc actattaagt aaaaagccat tgtactactt 120
 40 acattttaac tacataatgt taacttatat aatatattatt gaattcagta tagggcacat 180
 42 gccctatcca tgactaacgt gagtccgccc tgatagcgag taagaaacga gcaaaggaat 240
 44 gcaaattatg tgaatactat acaccaacag tgtagacatg tagctacaat gcggcaatgt 300
 46 taaaaataaa ctcaaattgg ttggaggga acaacctaat gcttataagt acacttttgt 360
 48 ggtaaataca atccaattga aagtctttgt aggtttgggt tggccaatg aaattgtatg 420
 50 cgagttgagt aaaataacct tagttcaaaa cattagatat gtaatggtct agatacgatg 480
 52 gtagccaaag atttgggtta aatttagaat aaagatcaaa gaacaaatga ctgacttcct 540
 54 tatgtgtgtt tgtttatgta aagtcttaac tcgtgtcttg ccaaattaat aaaaagggtg 600
 56 attatacaat gaactagagc ttgttctcat caaaattttt aacattaaaa taagttatta 660
 58 aaatttttgt gattatata gatttcaata tttaaattata ttttttgctt atagcatcaa 720
 60 aacttcttgg cacagctccg agtggtactg aaatgtttgt gtggctccaa tagaaaagtt 780
 62 aataccaatc atgaatcatc aatatcgta caaaaacagt aatcagtttc acccactccg 840
 64 agtggttagtg aaatgtttgt gtggctccat taaaaaagtt aataccaatc accaatatcg 900
 66 ttacaaaatt tgtaatcagt ttcaaccact tcttttcgtc ttgttactcg atatagcctc 960
 68 acctttcaag tgtctaatat aacacttttt aacaaaatat tacaaaacaa gaaaaattat 1020
 70 agtaattaga ttaatcatat gtaatctatt acatatagta atttgtatta gtatcgttta 1080
 72 ttgtgttacc attcaaacg tataatctat ataattatta gcaaaacaaa atatagtttt 1140
 74 agtaattaat aaaattaata taatgatagt gatattcaga atgtggtatc taatcatgta 1200

RAW SEQUENCE LISTING

DATE: 01/24/2003

PATENT APPLICATION: US/09/857,346

TIME: 13:12:49

Input Set : A:\US App 050341-0041-3 Aug 22, 2002.txt.txt

Output Set: N:\CRF4\01242003\I857346.raw

```

76 aaaatatata ataataaaat tagataaaga agaaattggt aaaaaataat taatgagata 1260
78 taaaaggaaa acaagctgat acaagcattt caccacaaaa aaaacaagct gatacaagca 1320
80 aaaaagaatt agtaactttg agctattgcc atatgtgtgg acatttaaga tttcttgat 1380
82 tttagaaatc ttatatattt ccacaatata tttactactt tcctttatta tttgtgttaa 1440
84 tctcccgaac attattattt caatactatc tgaaaaacac attttttttt ataaaaattg 1500
86 atgacgtagg cgagtgggtt tttgttttta ctatgtaggc acgactttgg taacacctac 1560
88 taattaactg ccaaatttta agttttgaga agtcggaaga gttcaaacca gttttagggt 1620
90 tcgatatgtc tacatagttc aaagatgatg tagagtggag gttctttctg caatagttca 1680
92 atccgtatcg taggggagga aagatagttt tcatttagca aagaaagtga aaactaaggc 1740
94 aatgcaaaag tagcaaaagac gctcgtcatg cggtagacgt ggcaatcttg tcttcaaac 1800
96 gcaacgtttt tattcacata tttggttttt ttgcatcact ctggtttacc ccaaaaaaa 1860
98 aaaaatatct ggcccgacga agaaaaagta gataggcaca aaaaatagaa agaaataaag 1920
100 cgagaaaaag aaaaaaaaaa atagaaagag aaaacgctta gtatctccgg cgacttgaac 1980
102 ccaaacctga ggatcaaatt agggcacaaa gccctctcgg agagaagcca tgggaagaaa 2040
104 aaaactagaa atcaagcgaa ttgagaacaa aagtagccga caagtcacct tctccaaacg 2100
106 tcgcaacggt ctcatcgaga aagctcgtca gctttctgtt ctctgtgacg catccgtcgc 2160
108 tcttctcgtc gtctccgctt ccggcaagct ctacagcttc tcctccggcg ataagtacgc 2220
110 cttttcctta cctgggtttt catttattcc cctttttatc ttctgttttg tgctctttta 2280
112 cttttctgag aaaataaaaa taaaaaaaca attaataac cgtttggttt tttccggcg 2340
114 gatctcttgt tgtttctcgg ttctgtgttt gttgtgttt tttctgcga ccatgataga 2400
116 tacatgagat aaccaaattt aaggaagaac aatgtcgtga agaagctttt tagcttctta 2460
118 cttttgttca tttctctctc tatttcttaa aaaaaaaaaa tctgcatgga tttcattatt 2520
120 tccttggaaa aaaattgcat gtccttcacg atttgtttga tacgatctga tgcgtgctcg 2580
122 atgttgttga gtgaagtttc aagccatctt tgattgtttc ttacctttag agattcctta 2640
124 agtttttgaa gagttaatta tatatcaca gactaatgat taatgtctct tttcagagt 2700
126 attaaaattc attggtctc tcggatttgt atgcaatgca cttacgggag atctatagag 2760
128 ttgctatggg gttaatgtc aacaatgtat atataccaca ttgtgcagct attgactata 2820
130 taagactatt gttaatctc tatgaattcc tatctttgct gtggacctat tacttgggtga 2880
132 ttatccaaat tagtggtttt aattgattca ttttttcat acacagtagt tttgaatttt 2940
134 ggtagcttca aaaaactcag cctcacaatt agtacttacc gcacatatgc tacttcagta 3000
136 acataatctg gttatcgatt gcgattcttt gaatacacaat cgtcgtgtgc tatatatata 3060
138 acaccttttg ctgtacataa actggtctaa ttttagacta attaaatttc attgttctct 3120
140 tggatttgta tatgcacgtc cgggagattt ataaataaaa ttagtatgag gttaatggta 3180
142 aaaaggatca agaagtttgg ttttaaattg aagccacatt aattgggaaa ctatgactaa 3240
144 aagatgaatt ggtaatatat acataatatt ttaacgaat ttctctcctt tttatgggat 3300
146 atgtatattg aagattgtcc aaagggttat agtttccac tcttgcagtt acacacatag 3360
148 atttgccctca tatttatgtg attgtatatc aattatcgcc cttaatctta tcatcgttgt 3420
150 gttcaattat gactttgttc ctattcggtt aaattgacaa tccacaacct caatcttttg 3480
152 ttgtgaaaaat cgacaatcac acaacctttg tatcttgtgt cttttgtcat ggaaattgtc 3540
154 attcacacag ccttgtttct ttggtgcctc taggaaattg aaaatcccac aacacttgtc 3600
156 ttcatgtaag aaataccaac ctcttttgta cggatctata atgaatcaat ataactctat 3660
158 atataagttg tcaaaattga atctggtgta gtgtctacta caacctcca atataataac 3720
160 caaatggttg tagtagtttg gccatgttgg tcaagatcgc tggccgattc tcaactgtag 3780
162 catactttgt taggatttgt tcacctag tttagtccag ccttgggaatt gtcgagacac 3840
164 ctgactagaa ctctggtct taattatgat ttaataaaga agaagccttt tagaacgtgg 3900
166 aaccttagt tactcagtta ctctttttgc atacttaggt tgatgcaaag agcttaactt 3960
168 cacaatagga ctgatatcta ttaacaaaac aaattaagtg aagttttgtc aaaattgttg 4020
170 gatcttctag gtcaatatgt agtttagttt ttatctgtct tagtcgcttc cttctatgga 4080
172 agatatattt atagatatgt gtgataagtt tcctactaat attagttagt gtaacttcaa 4140

```

RAW SEQUENCE LISTING

DATE: 01/24/2003

PATENT APPLICATION: US/09/857,346

TIME: 13:12:49

Input Set : A:\US App 050341-0041-3 Aug 22, 2002.txt.txt

Output Set: N:\CRF4\01242003\I857346.raw

```

174 gggcagaaaa ctctttactt ttattgcttg attaatttgg ggtttaaata taggaaattg 4200
176 gaacctcaca gtttctataa acgagtatgt aattgaatgt gaaataacaa aatggaagac 4260
178 cggcttccta ttcttaggag tcttttgata ttgcaaaaa aaacatatac aatagaaata 4320
180 tgagttttgt ctaagactcg gtccatgtat ttggagtttg gcttcctcat acttatgggt 4380
182 atctggttac cgccacatca tcattatcat cttatgggtc atcaatacta gctctatcgc 4440
184 tggaaaaaac ctigtccca aggttcattg aaaaatccga aaagttttct cgtatatgtt 4500
186 gatatgggat tacttacaaa caaagagctg atgttaccaa ttttgacacg agattactaa 4560
188 tgaactcatg aaagaggcgt ttttaaaaaa ttctttttta aactgggata caaaaagaaa 4620
190 agaggtaact aataatttga taccattgtt cgtagtcctg atcaaagtgt ataagggtaa 4680
192 acatgataga aaatagaggg taaataggtt ttgttcttat aatggttttg ataacacgct 4740
194 ttgtaaagga tataggtgtt ttttgatgct aaaagttgtg gtatggatca aaaccaaaat 4800
196 ggaagctctg aatctctgat agaggttgca attagaatta tataagttaa tttgcaaatg 4860
198 aattggaagc agtcttccac tatttgctat tgttagggaa gtctttcagt taatttcaga 4920
200 aaattaagag aaatatgact ttctagactc agtctgtgta cttggaattt tacttcgggt 4980
202 tacttccatg tcatcacatt gtggctcatc aatatatgtg tgtatataca ttcatgagta 5040
204 tatatgattt ctggaaaaat aaaaattgct tgtttgcatt taagattggg gctgcgttta 5100
206 cattttatat tgcatacaatt atttcaacat agattcacaa acataaatgc atagaaacaa 5160
208 tctggacagt agaggcttat gtttaggggt cttatgtacc ttaactagtt tgactttaag 5220
210 ttaatcaaag ccagcgctat cactaaactt tatctgtatg cctttgtatg acttttcttt 5280
212 gagggaaaaat gtcattttca atctgccgaa atatataata aatacatgtt agcccacata 5340
214 attcattgga taactaatct ttgagcaatt tttggtaaat gttttgggtt ttttcttttc 5400
216 ttgagagaga aaaaaaatat cagatattat taaatattgc ttacaaagct aagaacaagt 5460
218 taaaactttt ttgaaaaagt ggaaattcag atgtgctact gcttaaacad gaataattaag 5520
220 attattgttt ttctgaaatg ttacgaatac tagcgtgtta tatatatgta aaaggtaagg 5580
222 tgttctctca atgtttcata gtttccagtg gccttttcaa gggttagcta gtagttttga 5640
224 tcctaacaata tttttatttt ttttgcctc tctccagcct ggtcaagatc cttgatcgat 5700
226 atgggaaaca gcatgctgat gatcttaaag ccttggtaat acaaacattt tgaatctttt 5760
228 ccctgatgga gttttataag gcgtaaattt actattagtt tgccgagtga tcctaaatat 5820
230 aaaatgaggt ggtggctcca catgcattat gcataccgca attttcatag cccttgtctt 5880
232 ttaccgcttc ttctgtccct ttttcatggg caggatcatc agtcaaaagc tctgaactat 5940
234 ggttcacact atgagctact tgaacttgtg gataggttag tactactaac taagactata 6000
236 ttgtctctcc acctttgatt acaaaggaat tagttttttt tttgtcaaac tatgaatata 6060
238 tgcagcaagc ttgtgggatc aaatgtcaaa aatgtgagta tcatgctctt tgttcaactg 6120
240 gaggaacacc ttgagactgc cctctccgtg actagagcca agaaggtaag ttgatttcgt 6180
242 aatgtctact cctttctgaa ttttgtttgc tgagaacaac cgtgctgctt ttgtttgttg 6240
244 cagaccgaac tcatgttgaa gcttgtttgag aatcttaaag aaaaggtcag atatttgcta 6300
246 ccaattttat tgtacatcag atatatcctc ttctgtgttg tctctgttac ttttaagtctg 6360
248 cttaacgagc ttgcacacat atttgcaact ttcttcatat gttttggatt ccaaattctg 6420
250 aagttgttag gtttagaaac ttgatcggta attgctgaac attttgatct ttaaatacagg 6480
252 agaaaatgct gaaagaagag aaccaggttt tggctagcca ggtaacgaaa gctacatttc 6540
254 ctaaaaatat atatgcataa ctaataagca ctgctgttg tgtgtccaat gtccatgtac 6600
256 atggacatag atacacactc ttatgcttgc agatatatat atatatatat atagtcagtg 6660
258 catttcaatc attcactagt tagcacttcc ctggtcttgt atagttgtat tctagacaat 6720
260 tcttctcaag attagggcat tttggttgtt ggttagtttg tttattaggg ttagtgagat 6780
262 tattactgaa taagaacaga aatttgataa cggctggtta gagttaaggg aaatcagatg 6840
264 aagttatttt tttatttttt atcgagtata aattacatga ttgctatatc attttactaa 6900
266 attaagaaaa aaaaattccg gttgttggac ataactaggt tttggttctt cttcttcgtt 6960
268 tttttcatgt taaagtgttt aattaggttt tggttcattt ggagatttag gaacctttta 7020
270 tagtctgggt aagtctgggt ttggtagaga ttcaataaga tttcttgatt ctcttcaggt 7080

```

RAW SEQUENCE LISTING

DATE: 01/24/2003

PATENT APPLICATION: US/09/857,346

TIME: 13:12:49

Input Set : A:\US App 050341-0041-3 Aug 22, 2002.txt.txt

Output Set: N:\CRF4\01242003\I857346.raw

```

272 tatggctctgg ttcagtcctag tttagttcaa tattggtttc cttgaagggt gtgtaaactg 7140
274 tgtctatatt taagttaatc accttttaac caaaaaaaaa agtttatgga ccgattagtt 7200
276 tttttttttt tttttttttg tgatgggttag gtttggtacc gagtggctca gttccaactc 7260
278 caagtgtcta gaagtagtgc tacttttaca tgctatatat aggttagatt ataaattata 7320
280 aactggtaaa agattataga tactgcttcc aaacttaaaa gcttaaacad aaagaacaca 7380
282 caaattatga gaaaaataac cttctgtagt gttttttaat gggtgttatt tgggtggtgtg 7440
284 aaaaagatat tccttggata gaagacaaaa agagaaagtg aatagtgatt ttgacctatg 7500
286 attatcgtac agatggagaa taatcatcat gtgggagcag aagctgagat ggagatgtca 7560
288 cctgctggac aaatctccga caatcttccg gtgactctcc cactacttaa ttagccacct 7620
290 taaatcggcg gttgaaatca aaatccaaaa catatataat tatgaagaag aaaaaaaaaa 7680
292 aagatatgta attattccgc tgataagggc gagcgtttgt acatcttaat actctctctt 7740
294 tgggcaagag actttgtgtg tgatacttaa gttagacggaa ctaagtcaat actatctgtt 7800
296 ttaagacaaa aggttgatga actttgtacc ttattcgtgt gagaattgca tcgagatctt 7860
298 gagtgtatgt gttcttctct tctgtcaaaa acttgtgttt gcttcacagt gaagaagcct 7920
300 acggcttatt ttgcaacagg gacgtggctc tctctctctc tctgcgcg 7968

```

303 <210> SEQ ID NO: 2

304 <211> LENGTH: 943

305 <212> TYPE: DNA

306 <213> ORGANISM: Arabidopsis thaliana

308 <400> SEQUENCE: 2

```

309 cgagaaaagg aaaaaaaaaa atagaaagag aaaacgctta gtatctccgg cgacttgaac 60
311 ccaaacctga ggatcaaatt agggcacaaa gccctctcgg agagaagcca tgggaagaaa 120
313 aaaactagaa atcaagcgaa ttgagaacaa aagtagccga caagtcacct tctccaaacg 180
315 tcgcaacggg ctcatcgaga aagctcgtca gctttctgtt ctctgtgacg catccgtcgc 240
317 tcttctcgtc gtctccgcct cgggcaagct ctacagcttc tcctccggcg ataacctggt 300
319 caagatcctt gatcgatatg ggaacacgca tgctgatgat cttaaagcct tggatcatca 360
321 gtcaaaagct ctgaactatg gttcacacta tgagctactt gaacttgtgg atagcaagct 420
323 tgtgggatca aatgtcaaaa atgtgagtat cgatgctctt gttcaactgg aggaacacct 480
325 tgagactgcc ctctccgtga ctagagccaa gaagaccgaa ctcatgttga agcttgttga 540
327 gaatcttaaa gaaaaggaga aaatgctgaa agaagagAAC caggttttgg ctagccagat 600
329 ggagaataat catcatgtgg gagcagaagc tgagatggag atgtcacctg ctggacaaat 660
331 ctccgacaat cttccggtga ctctccact acttaattag ccaccttaaa tcggcggttg 720
333 aaatcaaaat ccaaaacata tataattatg aagaaaaaaaa aaataagata tgtaattatt 780
335 ccgctgataa gggcgagcgt ttgtatatct taatactctc tctttggcca agagactttg 840
337 tgtgtgatac ttaagtagac ggaactaagt caatactatc tgttttaaga caaaagggtg 900
339 atgaactttg taccttattc gtgtgagaaa aaaaaaaaaa aaa 943

```

342 <210> SEQ ID NO: 3

343 <211> LENGTH: 196

344 <212> TYPE: PRT

345 <213> ORGANISM: Arabidopsis thaliana

347 <400> SEQUENCE: 3

```

349 Met Gly Arg Lys Lys Leu Glu Ile Lys Arg Ile Glu Asn Lys Ser Ser
350 1 5 10 15
353 Arg Gln Val Thr Phe Ser Lys Arg Arg Asn Gly Leu Ile Glu Lys Ala
354 20 25 30
357 Arg Gln Leu Ser Val Leu Cys Asp Ala Ser Val Ala Leu Leu Val Val
358 35 40 45
361 Ser Ala Leu Gly Lys Leu Tyr Ser Phe Ser Ser Gly Asp Asn Leu Val
362 50 55 60

```

RAW SEQUENCE LISTING

DATE: 01/24/2003

PATENT APPLICATION: US/09/857,346

TIME: 13:12:49

Input Set : A:\US App 050341-0041-3 Aug 22, 2002.txt.txt

Output Set: N:\CRF4\01242003\I857346.raw

```

365 Lys Ile Leu Asp Arg Tyr Gly Lys Gln His Ala Asp Asp Leu Lys Ala
366 65              70              75              80
369 Leu Ala His Gln Ser Lys Ala Leu Asn Tyr Gly Ser His Tyr Glu Leu
370              85              90              95
373 Leu Glu Leu Val Asp Ser Lys Leu Val Gly Ser Asn Val Lys Asn Val
374              100             105             110
377 Ser Ile Asp Ala Leu Val Gln Leu Glu Glu His Leu Glu Thr Ala Leu
378              115             120             125
381 Ser Val Thr Arg Ala Lys Lys Thr Glu Leu Met Leu Lys Leu Val Glu
382              130             135             140
385 Asn Leu Lys Glu Lys Glu Met Leu Lys Glu Glu Asn Gln Val Leu
386 145              150              155              160
389 Ala Ser Gln Met Glu Asn Asn His His Val Gly Ala Glu Ala Glu Met
390              165              170              175
393 Glu Met Ser Pro Ala Gly Asn Ile Ser Asp Asn Leu Pro Val Thr Leu
394              180              185              190
397 Pro Leu Leu Asn
398              195

```

401 <210> SEQ ID NO: 4

402 <211> LENGTH: 691

403 <212> TYPE: DNA

404 <213> ORGANISM: Brassica napus

406 <220> FEATURE:

407 <221> NAME/KEY: misc_feature

408 <222> LOCATION: (611)..(611)

409 <223> OTHER INFORMATION: n= a, t, g or c

412 <220> FEATURE:

413 <221> NAME/KEY: misc_feature

414 <222> LOCATION: (655)..(655)

415 <223> OTHER INFORMATION: n= a, t, g or c

418 <220> FEATURE:

419 <221> NAME/KEY: misc_feature

420 <222> LOCATION: (657)..(657)

421 <223> OTHER INFORMATION: n=a, t, g or c

424 <220> FEATURE:

425 <221> NAME/KEY: misc_feature

426 <222> LOCATION: (691)..(691)

427 <223> OTHER INFORMATION: n= a, t, g or c

430 <400> SEQUENCE: 4

```

431 ggatcctatg tgaggttata gatccacgtg catatcaaatt ttctcaaatt cgttgccttc      60
433 taacggctct tatatccctt ctccgtggac agaattctca gtcaaaagct ctgagctatg      120
435 gttcacacaa tgagttactt gaacttgtag ataggttagt actacctgag acttttttcc      180
437 ctctcctcct ttcattacaa aggtattagg gtttcttgct aatctgtgca tatatatgca      240
439 gcaagcttgt ggaatcaaatt gtcggtgggt taagcgtgga caccctcggt cagctggagg      300
441 gtgtccttga aaatgccctc tctctaacta gagctaggaa ggtacgttga cttcactactg      360
443 tcttctcatt tcttactttg tttgttgaaa cgattgttca cttatattta atttggtgca      420
445 gacagaacta atgttgaaagc ttgttgatag cctcaaagaa aaggttagat atatcatata      480
447 tgattttata gcacttcaga tatcttctcg tgtttgaaag cctcaaatat ttatgtgttg      540
449 tattaagttt ctctaagtgt gctttatgag ctcgcaatca aacttcttca taagtgcac      600

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/24/2003
PATENT APPLICATION: US/09/857,346 TIME: 13:12:50

Input Set : A:\US App 050341-0041-3 Aug 22, 2002.txt.txt
Output Set: N:\CRF4\01242003\I857346.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 611,655,657,691
Seq#:7; N Pos. 742,844
Seq#:10; N Pos. 619
Seq#:12; N Pos. 748,769,779

VERIFICATION SUMMARY

DATE: 01/24/2003

PATENT APPLICATION: US/09/857,346

TIME: 13:12:50

Input Set : A:\US App 050341-0041-3 Aug 22, 2002.txt.txt

Output Set: N:\CRF4\01242003\I857346.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:600

L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:660

L:564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:720

L:568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:840

L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:600

L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:720